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UNITED STATES
DEPARTMENT OF THE INTERIOR
INDIAN FIELD SERVICE
OSAGE AGENCY

FINAL REPORT OF COMPLETED OR DEEPEINED WELLS
FOR LANDS COVERED BY DEPARTMENTAL LEASES 13

Specify Oil, Gas or Dry Water Input

This Report must be typewritten and filed within ten days after well is treated or producing natural.

Company Operating Phillips Petroleum Company Address Bartlesville, Oklahoma
Lessee PPCo. - North Burbank Unit Lessor OSAGE TRIBE
Well No. NBU 15-W21 SW/4 Sec. 11 T. 27N R. 5E K.B. 1132.02
Well located 890 Ft. From { N } Line and 565 Ft. From { E } Line Elevation, D.F. 1130.72
S All meas f/RKB W GL 1124.52
Well drilled by Phillips Petroleum Company Superintendent R. W. O'Neill
Date commenced drilling 4-16-63, 19..... Finished 6-23-63, 19.....
Date commenced deepening....., 19..... Finished....., 19.....

Casing Used in Drilling				Casing Left in Hole				Casing Perforations			
Length	Size	Wt. per ft.	Thread	Length	Landed at	Cement	Shots	Interval			
110 Ft.	8-5/8 Ins.	32 Lbs.	8V Per in.	R-1 Ft.	118 Ft.	105 Sks.	Holes, From.....	To.....			
2997 Ft.	4-1/2 Ins.	9.5 Lbs.	8R Per in.	R-3 Ft.	3003 Ft.	75 Sks.	w/30% Diacel D	Holes, From.....	To.....		
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From.....	To.....			
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From.....	To.....			
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From.....	To.....			
Ft.	Ins.	Lbs.	Per in.	Ft.	Ft.	Sks.	Holes, From.....	To.....			

What was done to protect sands when outside casing was pulled? Not pulled

Formation Treatment (Hydrafrac, Sandfrac, etc.)

Gal. Oil..... Lbs. Sd. 125 Gal. Acid, From 3003' To 3061'
Gal. Oil..... Lbs. Sd. Gal. Acid, From..... To.....
Gal. Oil..... Lbs. Sd. Gal. Acid, From..... To.....
Shot..... Qts., From..... To.....

Is water completely shut off? Yes Amount water with oil..... per cent. Is oil cut..... Gravity..... ° Baume

Oil Initial (Natural)..... Bbls. Hrs. Choke
Oil Initial (After Treatment)*..... Bbls. Hrs. Choke
*After Total Load Has Been Recovered
Tubing.....

Gas—Initial open flow sand from..... ft. to..... ft.

Cu. ft. rock pressure..... lbs. per sq. in.

Initial open flow sand from..... ft. to..... ft.

Cu. ft. rock pressure..... lbs. per sq. in.

Location fee paid Fee Land Date..... Amount, \$.....
(Sign here) R. W. O'Neill Your position with the lessee Area Supt.

WATER INPUT

TD 3061

Well Number NBU 15-W21

FORMATION RECORD

[illegible]

United States
Department of the Interior
Osage Indian Agency
Pawhuska, Oklahoma

Date: May 19, 2010**Application For the Operation or Report on Wells**

North Burbnak Unit Tract 15

Fee Land

(Commencement money paid to whom)

(Date)

(Amount)

Well No.: W21 is located 890 Ft. from S line and 565 Ft. from W line

SW/4 Sec 11

27N

05E

Osage County, Oklahoma

(1/4 Sec. & Sec. No.)

(Twp)

(Range)

The elevation of the ground level above sea level is 1124.52 Ft.

OS #0205

Use This Side to Request Authority for Work

(Three Copies Required)

Notice of Intention To:

- Drill..... ☐
 Plug..... ☐
 Deepen or plug back.. ☐
 Convert..... ☐
 Pull or alter casing..... ☒
 Formation Treatment. ☐

Details of Work

Drilling applications will state proposed TD & horizons to be tested. Show size & length of casings to be used. Indicate proposed mudding, cementing & other work.
 Plugging applications shall set forth reasons for plugging & detailed statement of proposed work.
 Plugging will not commence until 10 days following approval unless authority granted for earlier commencement.
 A \$15.00 plugging fee is also required with each application to plug.

0 Bbls oil 0 Bbls water in 24 hrs
 This is a by rule water injection well. Chaparral plans to use this well to to also inject CO2 in a WAG EOR project. Will MIRU POOH w/ all current injection tbg & pkr. Set CIBP @ 2980' in 4 1/2" csg. Perf 4 1/2" from CIBP to 500 feet above it. Part 4 1/2 @ 500' & POOH. RIH w/ 4 1/2" retainer & set above bottom perms & sqz Class A cement behind 4 1/2". WOC, drill out retainer & cmt to CIBP. RIH w/ 3 1/2" 9.5# slim line csg w/ bottom 200' chrome lined for CO2 service. Cement 3 1/2" to surf & sqz cmt behind surface csg if possible. (OVER)
 I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations may be commenced.

Lessee: Chaparral Energy, L.L.C.Signature: David P. Spencer

David P. Spencer

Title: Manager of Regulatory AffairsAddress: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114**Use This Side To Report Completed Work**

(One Copy Required)

Character of Well (oil, gas or dry)

Subsequent Report of: _____

- Conversion..... ☐
 Formation Treatment. ☐
 Altering casing..... ☐
 Plugging Back..... ☐
 Plugging..... ☐

Details of Work & Results Obtained

Work commenced: _____

Work completed: _____

(Continue on reverse if necessary)

This block for plugging information only**Casing Record**

Size	In Hole When Started	Amnt. Recovered	If Parted	How
			Depth	

Original TD _____

Lessee: _____

By: _____

Subscribed and sworn to before me this _____ day of _____, 2010.

WOC. Drill out cmt, plug & CIBP to open well to injection into Burbank formation. Run CBL. RIH w 3 1/2" X 2-3/8" Arrowset 1X packer & ceramic coated 2 1/2" tbg to end of 3 1/2" csg. MIT wellbore for Water and CO2 injection & wait on EPA permit for CO2 injection. Re-establish water injection until then.

Use This Form to Report Authority for Work

Well Name: _____

Well Number: _____

Well Status: _____

Well Depth: _____

Well Type: _____

Well Location: _____

Well Owner: _____

Well Operator: _____

Well Completion: _____

Well Production: _____

Well Injection: _____

Well Abandonment: _____

Well Plugging: _____

Well Relinquishment: _____

Well Decommissioning: _____

Well Restoration: _____

Well Remediation: _____

Well Rehabilitation: _____

Well Reclamation: _____

Well Reuse: _____

Well Repairs: _____

Well Modifications: _____

Well Upgrades: _____

Well Enhancements: _____

Well Optimizations: _____

Well Improvements: _____

Well Innovations: _____

Well Discoveries: _____

Well Findings: _____

Well Results: _____

Well Conclusions: _____

Well Recommendations: _____

Well Actions: _____

Well Plans: _____

Well Schedules: _____

Well Budgets: _____

Well Resources: _____

Well Risks: _____

Well Opportunities: _____

Well Challenges: _____

Well Solutions: _____

Well Outcomes: _____

Well Impacts: _____

Well Benefits: _____

Well Costs: _____

Well Values: _____

Well Ethics: _____

Well Legality: _____

Well Compliance: _____

Well Standards: _____

Well Best Practices: _____

Well Lessons Learned: _____

Well Continuous Improvement: _____

Well Innovation: _____

Well Sustainability: _____

Well Resilience: _____

Well Adaptability: _____

Well Flexibility: _____

Well Scalability: _____

Well Transferability: _____

Well Replicability: _____

Well Generalizability: _____

Well Applicability: _____

Well Relevance: _____

Well Significance: _____

Well Importance: _____

Well Urgency: _____

Well Priority: _____

Well Feasibility: _____

Well Viability: _____

Well Desirability: _____

Well Attractiveness: _____

Well Profitability: _____

Well Competitiveness: _____

Well Marketability: _____

Well Acceptability: _____

Well Appropriateness: _____

Well Timeliness: _____

Well Effectiveness: _____

Well Efficiency: _____

Well Economy: _____

Well Equity: _____

Well Inclusion: _____

Well Participation: _____

Well Collaboration: _____

Well Partnership: _____

Well Alliance: _____

Well Network: _____

Well Community: _____

Well Society: _____

Well World: _____

Well Universe: _____

Well Everything: _____

Well Nothing: _____

Well Somewhere: _____

Well Anywhere: _____

Well Everywhere: _____

Well Nowhere: _____

Well Somewhere Else: _____

Well Anywhere Else: _____

Well Everywhere Else: _____

Well Nowhere Else: _____

Well Somewhere, Anywhere, Everywhere, Nowhere, Somewhere Else, Anywhere Else, Everywhere Else, Nowhere Else: _____